

LECROY (TELEDYNE LECROY)

LT364L

The Teledyne LeCroy LT364L is a 500 MHz, 4-channel digital oscilloscope from the WaveRunner LT series. Designed with 1 Mpts of acquisition memory per channel (up to 2 Mpts when interleaved), an 8.4-inch color TFT display, and a robust suite of troubleshooting and analysis tools, it provides exceptional single-shot and repetitive signal capture capabilities for design and debug professionals.

SPECIFICATIONS

General

Interfaces	GPIB (IEEE-488.2), RS-232-C (DB-9), Centronics parallel, VGA out, External Trigger input, LAN (optional)
Display	8.4 inch color TFT-LCD, 640 × 480 VGA resolution
Real-Time Clock	Built-in, provides date and time stamps

Physical

Power Supply	90 to 250 V AC, 45 to 66 Hz, automatic AC voltage selection, max 200 VA
Operating Temperature	5 to 40 °C °C
Dimensions (W×H×D)	350 mm × 210 mm × 300 mm mm

Vertical System

Analog Bandwidth (-3 dB)	500 MHz
Calculated Rise Time	700 ps
Number of Input Channels	4
Vertical Resolution	8-bit ADC
Input Impedance	1 MΩ 12 pF or 50 Ω
Input Coupling	AC, DC, GND
Input Sensitivity (1 MΩ)	2 mV/div to 10 V/div
Input Sensitivity (50 Ω)	2 mV/div to 1 V/div
DC Gain Accuracy	±1.5% of full scale
Maximum Input Voltage (1 MΩ)	400 V max (DC + Peak AC ≤ 10 kHz)
Maximum Input Voltage (50 Ω)	5 V rms
Bandwidth Limiters	25 MHz, 200 MHz
Enhanced Resolution (ERES)	Up to 11 bits

Horizontal System

Maximum Real-Time Sampling Rate (4 Channels)	1 GS/s
Maximum Real-Time Sampling Rate (2 Channels Interleaved)	2 GS/s
Random Interleaved Sampling (RIS) Rate	50 GS/s
Standard Record Length (4 Channels)	1 Mpts/ch
Standard Record Length (2 Channels Interleaved)	2 Mpts
Time Base Range	500 ps/div to 1000 s/div
Time Base Accuracy	≤ 10 ppm

Trigger System

Trigger Sources	Ch 1, Ch 2, Ch 3, Ch 4, Line, Ext, Ext/10
Trigger Modes	Auto, Normal, Single, Stop
Edge Triggering	Positive or negative slope
SMART Triggers	Glitch, Pulse Width, Interval, Dropout, State/Pattern qualified

Acquisition System

Acquisition Modes	Real-time, Roll, RIS, Single-shot
Sequence Mode (Segmented Memory)	Up to 4,000 segments

Waveform Measurements and Analysis

Automatic Measurements	Up to 5 simultaneous measurements with statistics
FFT Window Types	von Hann (Hanning), Hamming, Flat-top, Rectangular

Display and User Interface

Graticule Options	Single, Dual, Quad, Octal, XY, YT, Variable Intensity
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Processor and Storage

Internal Storage	3.5 inch 1.44 MB floppy drive
PCMCIA Slots	One Type II PCMCIA slot

Environmental Specifications

Storage Temperature Range	-20 °C to 60 °C
Operating Humidity Range	80% RH at 30 °C, decreasing linearly to 45% RH at 40 °C
Operating Altitude	Up to 3,048 m (10,000 ft)

Physical Characteristics

Form Factor	Benchtop
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Compliance and Standards

Safety Certifications	UL 3111-1, CSA C22.2 No. 1010.1, EN 61010-1
Electromagnetic Compatibility	EN 50081-1, EN 50082-1, FCC Class A

Inputs & Outputs

Probe Interface	Teledyne LeCroy ProBus
External Trigger Input	1 MΩ 15 pF; max input 400 V max
External Display Output	15-pin D-Sub (VGA)
Printer Port	Centronics parallel port
Serial Port	RS-232-C (DB-9 male, up to 115.2 kbps)
GPIO Port	IEEE-488.2

Storage

Floppy Drive	3.5 inch, 1.44 MB (DOS compatible)
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Documentation & Printing

Supported Hardcopy Formats	TIFF, BMP, HPGL, PostScript
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Software & Options

Optional Software Packages	WaveAnalyzer (WAVA), Digital Filter Package (DFP), Jitter and Timing Analysis (JTA)
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System

Processor	96 MHz PowerPC
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Signal Outputs

Calibrator Output	1 kHz, 1 V into ≥ 10 kΩ
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TECHNOLOGY

Digital Storage Oscilloscope (DSO)

APPLICATIONS

Electronic Design, Debugging, and Troubleshooting

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